UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/554,598	10/27/2005	Roland Lenormand	612.45519X00	6653	
•••••	7590 04/17/200 TERRY, STOUT & K.	• EXAMINER			
1300 NORTH S	SEVENTEENTH STR	FITZGERALD, JOHN P			
SUITE 1800 ARLINGTON,	VA 22209-3873		ART UNIT	PAPER NUMBER	
,			2856		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		04/17/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/554,598	LENORMAND ET AL.			
Office Action Summary	Examiner	. Art Unit			
	John Fitzgerald	2856			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communice. If NO period for reply is specified above, the maximum statutor. Failure to reply within the set or extended period for reply will, the Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a stion. y period will apply and will expire SIX (6) MOI by statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 2a) This action is FINAL . 2b) 3) Since this application is in condition for a closed in accordance with the practice upon the condition of the closed in accordance.	☐ This action is non-final. allowance except for formal mat	•			
Disposition of Claims					
4) ⊠ Claim(s) 1-14 is/are pending in the appli 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,3,4 and 10 is/are rejected. 7) ⊠ Claim(s) 2,5-9 and 11-14 is/are objected 8) ☐ Claim(s) are subject to restriction	rithdrawn from consideration.				
Application Papers					
 9) The specification is objected to by the Example 10) The drawing(s) filed on 27 October 2005 Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by 	is/are: a) accepted or b) conto to the drawing(s) be held in abeyand correction is required if the drawing	nce. See 37 CFR 1.85(a). i(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/27/05.	Paper No(Summary (PTO-413) (s)/Mail Date Informal Patent Application			

Art Unit: 2856

DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. § 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 10 is rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Namely, the Applicant cited two references in the instant specification (Berryman and Bruggeman) in reference to "mean field theory," without providing a satisfactory exposition of the theory. Without the cited references, the Examiner finds that there is insufficient support for enablement of one of ordinary skill in the art to apply "mean field theory" as recited in claim 10.

Application/Control Number: 10/554,598 Page 3

Art Unit: 2856

Claim Rejections - 35 USC § 103

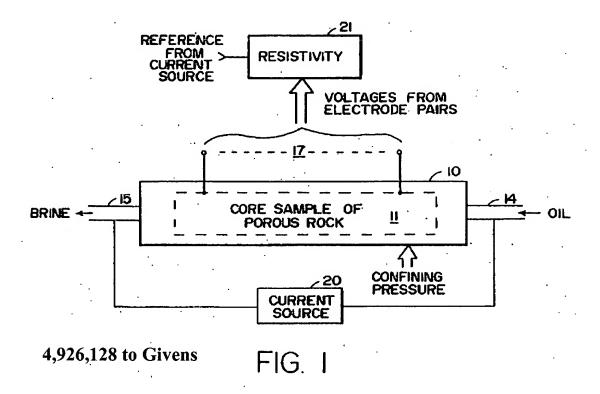
4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 4,926,128 to Givens and U.S. 2,583,284 to Wyllie et al. Givens discloses a method of determining the formation factor of an underground zone from drill cuttings taken to the surface including a cell (10) (see Fig. 1 below) to contain the cuttings and having electrodes (17) wherein the cell is filled with a first electrolyte solution (preferably brine) to saturate the cuttings and measuring the conductivity/resistivity (note: conductivity is the reciprocal of resistivity); discharging the first electrolyte solution with a second electrolyte solution (immiscible and oppositely conducting, thus meeting the limitations of claims 3 and 4) and another resistivity/conductivity measurement is made (i.e. cutting saturated with the first electrolyte) and deducing the formation factor (FF) from the resistivity/conductivity measurements. However, Givens does not expressly disclose the cleaning of the cutting before setting them in the cell or the relative concentrations of the first and second electrolyte solutions (claims 3 and 4). Wyllie et al. disclose a method of determining the FF employing many of the method steps recited, as well as that it is customary to wash/clean the drill cuttings before any measuring tests to remove "fines and mud" as well as remove residual "oil and salts." It would have been obvious to one having ordinary skill in the art at the time the invention was made to wash or clean the drill

Application/Control Number: 10/554,598

Art Unit: 2856

cuttings thus removing stray factors that might interfere/offset the resistivity/conductivity measurements (i.e. remove contaminants) (Wyllie et al.: col. 6, line 63 to line 70).



Allowable Subject Matter

6. Claims 2, 5-9 and 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is invited to review PTO form 892 accompanying this Office Action listing Prior Art relevant to the instant invention cited by the Examiner.

Application/Control Number: 10/554,598

Art Unit: 2856

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center

Page 5

04/04/2007

(EBC) at 866-217-9197 (toll-free).

HEZMON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800